

**I claim:**

1. A computer fan assembly mechanism having filtering and sterilizing functions, comprising:
  - a fan body with a detachable cover plate;
  - at least one fan pivotally disposed on the fan body;
  - an air passageway being formed at a hollow portion in said fan body;
  - said air passageway having an intake and an air vent;
  - a photo-catalytic net being disposed at said intake;
  - at least one UV LED disposed on said air passageway to illuminate said photo-catalytic net;
  - a fan frame having an entry and a movable cover plate, which is disposed at a position corresponding to said entry, and further including a handle added on said fan body; and
  - a filter net disposed between said photo-catalytic net and a ventilation panel, which is disposed at a position of the fan frame corresponding to said intake.
2. The computer fan assembly mechanism having filtering and sterilizing functions as claimed in claim 1, wherein the fan is a spiral centrifugal fan, said air passageway is in an R shape, the fan having a plurality of blades arranged thereof and pivotally disposed on said fan blade pivot, and the UV LED is disposed in a distal sidewall of said R-shaped air passageway or at a middle section of said air passageway.
3. A computer fan assembly mechanism having filtering and sterilizing functions as claimed in claim 1, wherein the fan is an axial-flow fan, said fan

body includes two fixing components projective and disposed therein, said

axial-flow fan is locked between said two fixing components, said air

passageway is formed between said intake and said axial-flow fan, said air vent

is located on said fan body, which is perpendicular to said air passageway

5 corresponding to said axial-flow fan, a photo-catalytic net is disposed at said

intake, a positioning portion is disposed on said air passageway, and the UV

LED is disposed on said positioning portion to illuminate said photo-catalytic

net.

4. A computer fan assembly mechanism having filtering and sterilizing

10 functions as claimed in claim 1, wherein the fan is made from plural axial-flow

fans which are parallel arranged in shell body, said ventilation panel includes a

connection frame assembled therewith and a photo-catalytic net disposed

therein, said connection frame has a photo-catalytic net fixedly disposed on

said shell body, at least one UV LED disposed on each of said axial-flow fans

15 and arranged to face said photo-catalytic net, and said shell body further has a

wiring box disposed therein, and electric wires of said wiring box connect said

axial-flow fans and the UV LED, which are disposed on a bow-shaped holder

or parallel inserted into a printed circuit board.